

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Appl. No. : 09/837,503 Confirmation No. 8044  
Applicant : Vincent M. Callaghan et. al.  
Filed : April 18, 2001  
TC/A.U. : 1764  
Examiner : Jennifer A. Leung  
Docket No. : 01-104  
Customer No. : 34704

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313

**Reply Brief**

Dear Sir:

This brief is submitted in reply to the Supplemental Examiner's Answer which was mailed on October 15, 2009.

In the Supplemental Answer on page 17, the Examiner argues related to Ground 2' that Takeo and Giles were both concerned with the same particular problem of controlling temperature rise in a series of catalyst beds. In fact, Giles is drawn to temperature control for an ammonia synthesis reactor, which is not at all the same endeavor as either Takeo or the present claims.

Giles states that his control allows control of temperature oscillations within the reactor. This is completely different from the cooling function served in the present invention, wherein a reactant stream is in fact cooled to a proper temperature for the downstream, fuel cell component. Avoiding fluctuation is not relevant, and certainly is not the goal, of the present invention. Rather, the control in the present invention is directed to the straight cooling of the reactants prior to their feed to a fuel cell component. The system, actual reaction and ultimate goal of the overall process as well as the injection in Giles are different from the claimed

invention. Giles is again asserted to be non-analogous art, and not relevant to the present invention.

This was the only new issue raised in the Supplemental Answer, and this no further Reply is deemed warranted or proper.

It is believed that no fee is due in connection with this paper. If, however, any such fee is due, please charge same to Deposit Account No. 02-0184.

Respectfully submitted,

By/george a. coury/  
George A. Coury  
BACHMAN & LAPOINTE, P.C.  
Reg. No. 34,309  
Attorney for Applicant  
Tel: 203-777-6628  
Fax: 203-865-0297  
Email: docket@bachlap.com

Date: December 15, 2009

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on this 29<sup>th</sup> day of June, 2009

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George A. Coury